



Project No: AFC002001030202

Project: Supplemental RI

Client: AFCEE

Location: Site 24 - Vandenberg AFB

Northing(ft): 2099539.3

Borehole ID: HGL78 (24MW22B)

Date: 10/23/2003

Geologist: M. Jackson

Checked By: D. Smith, R.G.

Ground Surface Elevation(ft msl): 459.6

Easting(ft): 5801058.1

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
2		Gravel, sand and silt	FL						
4				456					
6		Poorly graded sand Moderate yellowish brown, slightly moist, slightly dense, medium grained at 10' light brown, moist to very moist	SP		97	11/13/18	5.5		
8									
10					100	28/23/25	10.3		
12				447					
14		Sandy clay Dark yellowish brown, slightly moist, stiff, 40% medium sand / 60% clay	CL						
16			SC	443	100	29/41/46	19.1		
18		Clayey sand Pale yellowish brown, moist, slightly dense, 80% medium grained sand / 20% clay	SP						
20					100	29/44/50	34.7		
22		Poorly graded sand Pale yellowish brown, very moist to saturated, slightly dense, medium grained, trace very fine pebbles							
24				434					
26		Clayey sand	SC	432	100	29/44/50	18.3		
28		Clay with sand Moderate yellowish brown, slightly moist, stiff	CL						
30				429	100	16/50 for 3"	5.4		
32		Poorly graded sand Grayish green, slightly moist, slightly dense, medium to coarse grained	SP	426					
34									
36		Sandy clay Grayish green, slightly moist, stiff, medium sand	CL		100	21/25/38	5.5		
38				422					
40			SW	419	100	31/50 for 4"	6.2		

Set temporary well (screen 15' - 25').
10-23-2003 No sample collected.

10-24-2003 Collect groundwater sample (HGL78-GW25)

Evidence of vertical, clay-lined fault plane in split spoon sample (dark

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: 2" x 18" CA Mod Split Spoon

HydroGeoLogic, Inc.

4600 Northgate Blvd., Suite 207

Sacramento, CA 95834

(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 70'

Sheet: 1 of 2



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SUBSURFACE PROFILE				SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	
42		Well graded sand with gravel Pale green, moist, slightly dense, medium to coarse grained, 80% sand / 20% gravel	GW	416	100			Insufficient water to sample.
44		Sandy gravel Grayish green, moist, slightly dense, 60% gravel / 40% medium-coarse grained sand	CL	412	100	40/50 for 4"	7.4	
46		Clay with sand						
48		Sandy clayey gravel Greenish gray, slightly moist, dense, 55% gravel / 20% sand / 25% clay	GC		100	50 for 5"	8.0	
50				406				Set temporary well (screen from 50' - 60'). Very moist sand at 54' to 55'. Dry - no water.
52				405				
54		Well graded sand with gravel	SW	405	100	29/50 for 5"	7.8	
56		Sandy clayey gravel Grayish green, very moist to moist, slightly dense, 60% gravel / 20% clay / 20% medium to coarse sand	GC	401				
58								Set temporary well (screen from 60' - 70').
60		Clay with silt Grayish green, slightly moist, stiff, 85% clay / 15% silt / trace sand	CL	399	100	24/50 for 2"	6.6	
62								
64		Clayey sandy gravel Grayish green, slightly moist, slightly dense, gravel to 2"		394				
66		at 64' to 65.5' <u>clayey gravel</u> (80% gravel / 20% clay)	SW	392	100	44/14/15 for 4"	9.1	Collect groundwater sample (HGL78-67). Bedrock at 67.5'. Drilled to 70'. Sampled to 71'. Installed monitoring well in boring.
68								
70		Well graded sand with gravel Grayish green to dark gray, moist to very moist, 85% medium-coarse sand / 15% gravel	rock	389	100	31/50 for 2"	9.9	
72								
74		Mudstone Brownish gray, very moist, hard, bedrock at 70' fissile, weathered						
76								
78								
80								

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